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FEE TRANSMITTAL For FY 2006 <small>Patent fees are subject to annual revision</small>		Complete If Known																																																																																																																																																																																																																																																																																																																																																											
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number:	10/715,806																																																																																																																																																																																																																																																																																																																																																										
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		First Named Inventor:	Melissa A. Petruska																																																																																																																																																																																																																																																																																																																																																										
		Examiner Name:	T. Kugel																																																																																																																																																																																																																																																																																																																																																										
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Cottrell</td> <td>Reg. No.</td> <td>30,620</td> </tr> <tr> <td>Signature:</td> <td><i>Bruce H. 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<b>1. COMBINED FILING FEE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>\$300</td> <td>2001</td> <td>\$150</td> <td>Basic Filing fee</td> <td>\$ 0.00</td> </tr> <tr> <td>1004</td> <td>\$300</td> <td>2004</td> <td>\$150</td> <td>Reissue Filing fee</td> <td>\$</td> </tr> <tr> <td>1111</td> <td>\$500</td> <td>2111</td> <td>\$250</td> <td>Search Fee</td> <td>\$ 0.00</td> </tr> <tr> <td>1311</td> <td>\$200</td> <td>2311</td> <td>\$100</td> <td>Examination Fee</td> <td>\$ 0.00</td> </tr> <tr> <td>1005</td> <td>\$200</td> <td>2005</td> <td>\$100</td> <td>Provisional Filing Fee</td> <td></td> </tr> <tr> <td>1085</td> <td>\$250</td> <td>2085</td> <td>\$125</td> <td>Provisional Size Fee</td> <td></td> </tr> </tbody> </table> (for each additional 50 sheets that exceeds 100 sheets)		Large Entity	Small Entity	Fee	Fee Description	Fee Paid	1001	\$300	2001	\$150	Basic Filing fee	\$ 0.00	1004	\$300	2004	\$150	Reissue Filing fee	\$	1111	\$500	2111	\$250	Search Fee	\$ 0.00	1311	\$200	2311	\$100	Examination Fee	\$ 0.00	1005	\$200	2005	\$100	Provisional Filing Fee		1085	\$250	2085	\$125	Provisional Size Fee		<b>2. EXTRA CLAIM FEES/APPLICATION SIZE FEE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>\$50</td> <td>2202</td> <td>\$25</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>\$200</td> <td>2201</td> <td>\$100</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>\$360</td> <td>2203</td> <td>\$180</td> <td>Multiple dependent claim, if not paid.</td> <td></td> </tr> <tr> <td>1204</td> <td>\$200</td> <td>2204</td> <td>\$100</td> <td>Reissue independent claims in excess of 3 over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>\$50</td> <td>2205</td> <td>\$25</td> <td>Reissue claims in excess of 20 over original patent</td> <td></td> </tr> </tbody> </table> Total Claims Fee \$ _____ <b>APPLICATION SIZE FEE</b> 1081 \$250 2081 \$125.00 For each additional 50 sheets that exceed 100 sheets, including specification and drawings <b>SUBTOTAL (2) \$ 0.00</b> (Include total of Claims Fees and Size Fee here)		Large Entity	Small Entity	Fee	Fee Description	Fee Paid	1202	\$50	2202	\$25	Claims in excess of 20		1201	\$200	2201	\$100	Independent claims in excess of 3		1203	\$360	2203	\$180	Multiple dependent claim, if not paid.		1204	\$200	2204	\$100	Reissue independent claims in excess of 3 over original patent		1205	\$50	2205	\$25	Reissue claims in excess of 20 over original patent																																																																																																																																																																																																																																																																															
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2. <input checked="" type="checkbox"/> The commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 12-2150 Deposit Account Name: Los Alamos National Laboratory <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. 1.16 and 1.17																																																																																																																																																																																																																																																																																																																																																													
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Printed Name:	Bruce H. Cottrell	Reg. No.	30,620																																																																																																																																																																																																																																																																																																																																																										
Signature:	<i>Bruce H. Cottrell</i>	Date:	May 19, 2006																																																																																																																																																																																																																																																																																																																																																										
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Date: May 19, 2006

To: Amendment/Response  
US Patent and Trademark Office

Phone:  
Fax: (571) 273-8300

From: Bruce H. Cottrell  
LC/IP

Phone: (505) 667-9168  
Fax: (505) 665-4424

Re: 10/715,806  
S-100,641  
Melissa A. Petruska

Sender: Karen Y. Mikus

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**Comments:**

**Included in this facsimile transmittal are the following documents for filing in the above-identified patent application:**

**Response to Office Action dated December 19, 2005.  
Fee Transmittal for 2 month extension of time (\$225.00).**

**Fee Payments Authorized: \$ 225.00**

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MAY 19 2006

Rev. 06/04/04

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Melissa A. Petruska

Docket No.: S-100,641

Serial No.: 10/715,806

Examiner: T. Kugel

Filed : 11/17/2003

Art Unit: 1712

For : NANOCRYSTAL/SOL-GEL NANOCOMPOSITES

Customer No. 35068

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450AMENDMENT/RESPONSE

Sir:

In response to the Office Action dated December 19, 2005, please enter the following amendments to the Claims, and consider the accompanying remarks.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

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CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

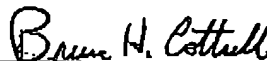
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Date May 19, 2006

Bruce H. Cottrell

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01 FC:2252 225.00 DA